



SAFETY DATA SHEET

Effective Date: 6/1/2024
Replaces: June 2018

Flux 1

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Flux 1	CAS #: Mixture
Synonyms/Common Names:	
Manufacturer/Contact Info: Teichert Aggregates PO Box 15002 Sacramento, CA 95851	General Phone Number: (916) 484-3011 (8-5, PST, M-F) Emergency Phone Number: (800) 287-7383

SECTION 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING! Silica quartz can cause cancer. Causes skin, eye and respiratory tract irritation. Possible reproductive hazard that may cause adverse reproductive effects based on animal data.

OSHA REGULATORY STATUS

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication) and 8 CCR § 5194 (Cal/OSHA).

POTENTIAL HEALTH EFFECTS

Routes of Exposure:

Inhalation. Ingestion. Skin contact. Eye contact.

Eye Contact:

Do not get this material in contact with eyes. Dust in the eyes will cause irritation.

Skin:

Do not get this material in contact with skin. Causes skin irritation.

Inhalation:

Dust irritating to respiratory tract. Inhalation of high concentrations of quartz dust can lead to the lung disease known as silicosis, with cough and shortness of breath.

Ingestion:

Under normal conditions of intended use, this material does not pose a risk to health. However, ingestion of dusts generated during working operations may cause nausea and vomiting.

TARGET ORGANS

Eyes. Skin. Respiratory system. Lungs. Blood.

GHS label elements

Hazard pictograms



Signal word:

Danger

Hazard Statements:

May cause severe skin and eye irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

May cause cancer (Inhalation)

SIGNS AND SYMPTOMS

Irritation.

POTENTIAL ENVIRONMENT EFFECTS

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Components	CAS No.	% by Weight
Borax decahydrate	1303-96-4	30-60
Potassium nitrate	7757-79-1	10-30
Sodium Carbonate Anhydrous	497-19-8	10-30
Silica Sand ⁽¹⁾	14808-60-7	5-10

Comments: (1) Natural sand includes quartz, a form of crystalline silica. Composition varies naturally.

SECTION 4. FIRST AID MEASURES**Eyes:**

Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation persists after washing.

Skin:

Remove contaminated clothes and rinse skin thoroughly with water for at least 15 minutes. Get medical attention promptly if symptoms persist or occur after washing.

Inhalation:

Move into fresh air and keep at rest. Get medical attention if any discomfort continues.

Ingestion:

Rinse mouth thoroughly if dust is ingested. Get medical attention if any discomfort continues. However, ingestion of small amounts of the material is not expected to pose a significant health hazard.

Notes to Physician:

Keep victim under observation. Symptoms may be delayed. Prolonged and routine inhalation of quartz dust can lead to delayed lung disease known as silicosis. Early symptoms of silicosis include coughing, wheezing, shortness of breath. Chronic exposure may also result in other lung problems such as chronic obstructive pulmonary disease.

General Advice:

If exposed or concerned: get medical attention/advice. If breathing is difficult, give oxygen. Keep victim under observation. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. As with any chemical, skin contact with this product, and the breathing of product dust, fumes or vapors, should be minimized. We strongly recommend that the precautions stated in this SDS be followed when handling the product.

SECTION 5. FIRE FIGHTING MEASURES**Flammable Properties:**

Not available

Flashpoint (method used):

Product: Not available

Flammable Limits in Air (% volume in air):

NE

LEL: NE

UEL: NE

Extinguishing Media:

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂). Avoid using a direct stream of water. Water spray should be used to cool containers.

Protection of Firefighters:

Cool containers with flooding quantities of water until well after fire is out. Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Specific Methods:

Containers close to fire should be removed or cooled with water.

SECTION 6. ACCIDENTAL RELEASE MEASURES**Personal Precautions:**

Avoid inhalation of dust and contact with skin and eyes. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the SDS for Personal Protective Equipment.

Methods for Containment:

Prevent entry into waterways, sewers or confined areas.

Methods for Clean Up:**Environmental Precautions:**

Collect dust or particulates using a vacuum cleaner with a HEPA filter. Collect in containers and seal securely. Containers with collected spillage must be properly labeled with correct contents and hazard symbol. For waste disposal, see Section 13 of the SDS. Clean up in accordance with all applicable regulations.

SECTION 7. HANDLING AND STORAGE**Handling:**

Pregnant women should not work with the product, if there is the least risk of exposure. Avoid inhalation of dust and contact with skin and eyes. Use personal protective equipment. Wash thoroughly after handling.

Storage:

Store in a well-ventilated place. Keep container tightly closed. Keep this material away from food, drink and animal feed. Keep out of reach of children.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	OSHA/MSHA Permissible Exposure Limit (PEL)	Cal/OSHA Permissible Exposure Limit (PEL)	ACGIH Threshold Limit Value (TLV)
Borax Decahydrate	5 mg/m ³ (respirable) 15 mg/m ³ (total dust)	5 mg/m ³ - borate decahydrate	6 mg/m ³ (inhalable) - borate compounds 2 mg/m ³ (inhalable) - borate compounds
Silica Sand	10 mg/m ³ (%SiO ₂ +2) (respirable) 30 mg/m ³ (%SiO ₂ +2) (total dust)	0.1 mg/m ³ (respirable) 0.3 mg/m ³ (total dust)	0.025 mg/m ³ (respirable)
Particulates (dust) – Potassium nitrate Sodium Carbonate Anhydrous	5 mg/m ³ (respirable) 15 mg/m ³ (total dust) as particulate NOR	5 mg/m ³ (respirable) 10 mg/m ³ (total dust)	3 mg/m ³ (respirable) 10 mg/m ³ (inhalable)

Engineering Controls:

Mechanical ventilation or local exhaust ventilation is recommended. Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of dust.

PERSONAL PROTECTIVE EQUIPMENT:**Eye / Face Protection:**

Wear dust goggles.

Skin Protection:

Wear appropriate chemical resistant clothing to prevent any possibility of skin contact.

Respiratory Protection:

Use personal protective equipment as required. In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory protection. If airborne concentrations exceed applicable exposure limits (PEL), wear NIOSH-approved respiratory protective equipment to maintain exposures below the PEL.

General Hygiene Considerations:

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Cleaning of personal protective equipment should be done with appropriate special equipment. Avoid smoking, eating, or drinking and storage of tobacco, food and drinks in work areas and areas where there is a risk of contamination from the substances and product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance & Odor:**

Powder, Odorless

pH: Not available	Melting Point: Not available	Boiling Point: Not available
Evaporation Rate: Not available	Vapor Pressure: Not available	Vapor Density: Not available
Specific Gravity: Not available	Solubility (water): Not available	

SECTION 10. CHEMICAL STABILITY & REACTIVITY INFORMATION
Chemical Stability: Stable at normal conditions.
Conditions to Avoid: Avoid incompatible materials and intense heat.
Incompatible Materials: Strong oxidizing agents. Strong acids.
Hazardous Decomposition Products: Nitrogen oxides (NOx). Sodium oxides. Boric acid.
Hazardous Polymerization: Hazardous polymerization does not occur

SECTION 11. TOXICOLOGY INFORMATION
Sensitization: Not available.
Local Effects: Dust in the eyes will cause irritation. Irritating to skin. Irritating to respiratory system.
Chronic Effects: May adversely affect the developing fetus. May cause blood damage. Crystalline silica, as respirable dust particles, has caused pulmonary fibrosis in laboratory animals and humans.
Carcinogenicity: Cancer hazard. Hazardous by OSHA criteria.

SECTION 12. ECOLOGICAL INFORMATION
Environmental Effects: Not available.
Other: Not available.

SECTION 13. DISPOSAL CONSIDERATIONS
Disposal Instructions: Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.
Waste from Residues / Unused Products: Dispose of waste and residues in accordance with local authority requirements.

SECTION 14. TRANSPORT INFORMATION [NOTE: NOT INTENDED TO BE ALL-INCLUSIVE]	
DOT Proper Shipping Name: Not regulated	DOT Hazard Classification: Not applicable
US/NA Number: Not regulated	DOT Packing Group: Not applicable
Labeling Requirements: Label as required by the OSHA Hazard Communication standard [29CFR 1910.1200(f)], MSHA Hazard Communication standard (30 CFR Part 47) and applicable state and local regulations.	

SECTION 15. REGULATORY INFORMATION [NOTE: NOT INTENDED TO BE ALL-INCLUSIVE]**US Federal Regulations:**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200 (OSHA) and 8 CCR § 5194 (Cal/OSHA).

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

None

Superfund Amendments and Reauthorization Act of 1986 (SARA), Title III:**Hazardous Categories:**

Immediate Hazard – Yes
Delayed Hazard – Yes
Fire Hazard – No
Pressure Hazard – No
Reactivity Hazard – No

Section 302 Extremely Hazardous Substance:

No

Section 311 Hazardous Chemical

Yes

California Proposition 65:

WARNING: This product can expose you to chemicals including crystalline silica, which are known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

State Regulatory Lists:

The following materials/components are specifically listed by individual states. For details on regulatory requirements, you should contact the appropriate agency in your state:

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Quartz [Silica crystalline] (14808-60-7) Listed

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Quartz [Silica crystalline] (14808-60-7) Listed: October 1, 1988 Carcinogenic

SECTION 16. OTHER INFORMATION**Disclaimer of Liability:**

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